NATIONAL RECONNAISSANCE OFFICE

(U) SIGINT Overview
(U) Overhead SIGINT [ ] Initiatives

(b)(1)
(b)(3)

April 2016

The overall classification of this brief is
~~TOP SECRET//SI/TK//NOFORN~~
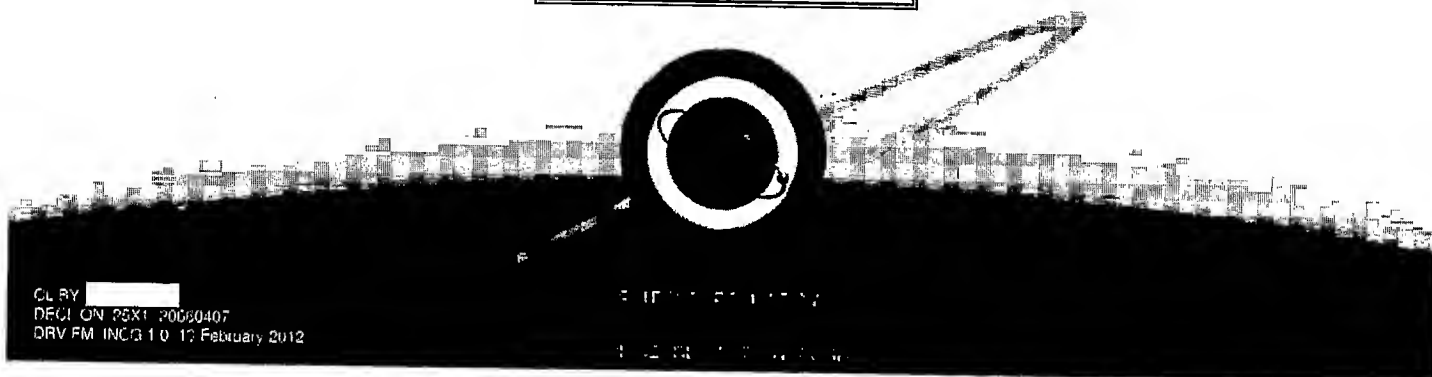
CL BY [ ]
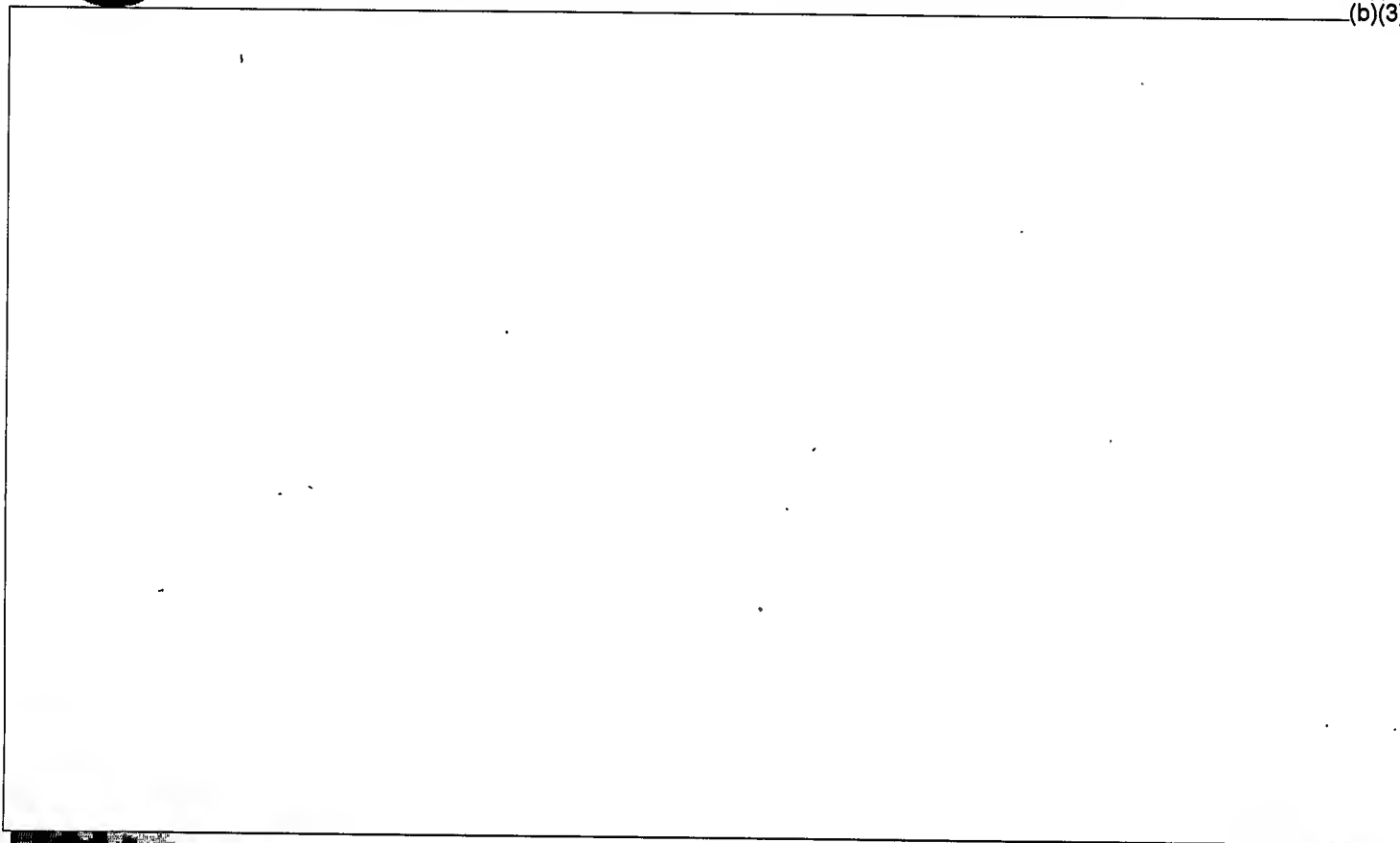DECL ON 25X1 20060407
DRV FM INCG 1 0 10 February 2012

(b)(3)

SECRET//TK//REL TO USA, FVEY
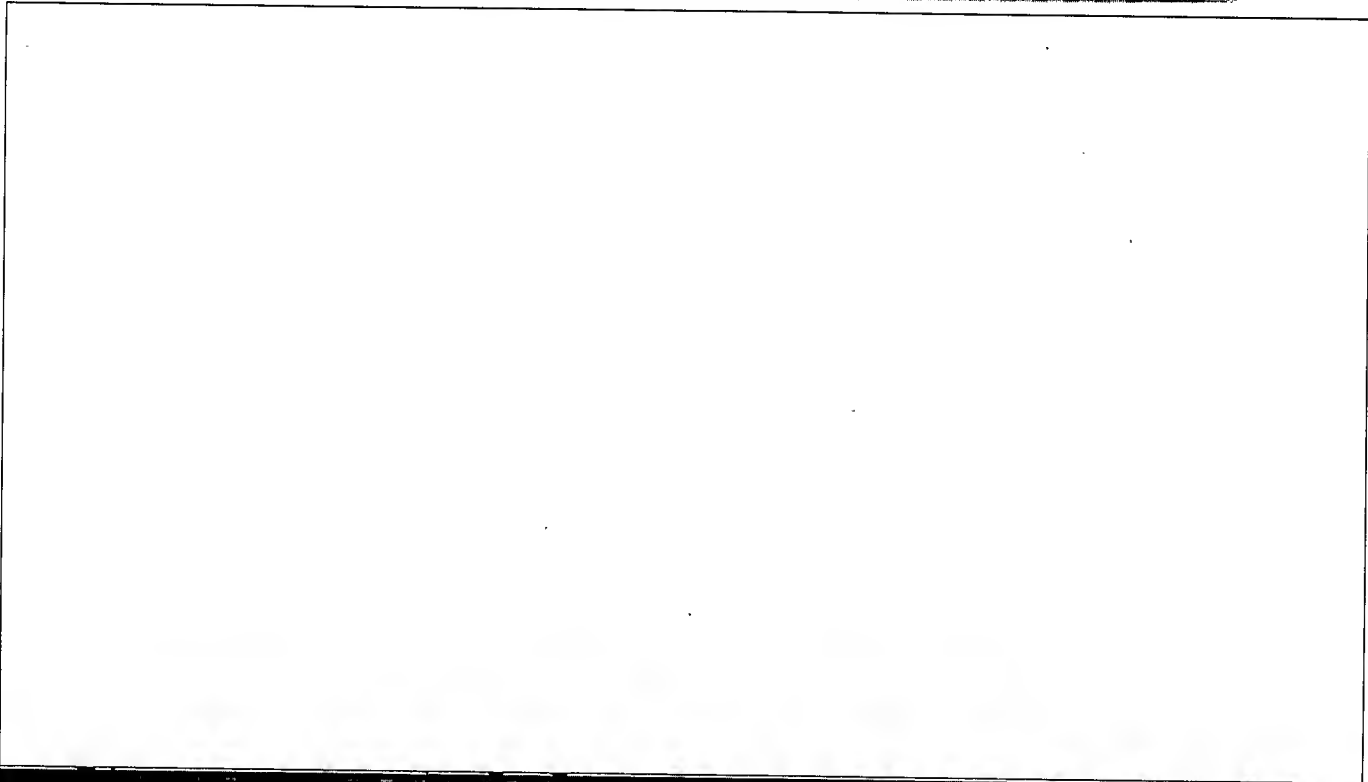
(U) Overhead SIGINT Constellation

Graphic is (S//TK//REL)

SECRET//TK//REL TO USA, FVEY

2

C05093749

TOP SECRET//TK//REL TO USA, FVEY

(U) Overhead SIGINT Traditional Single Day Collection
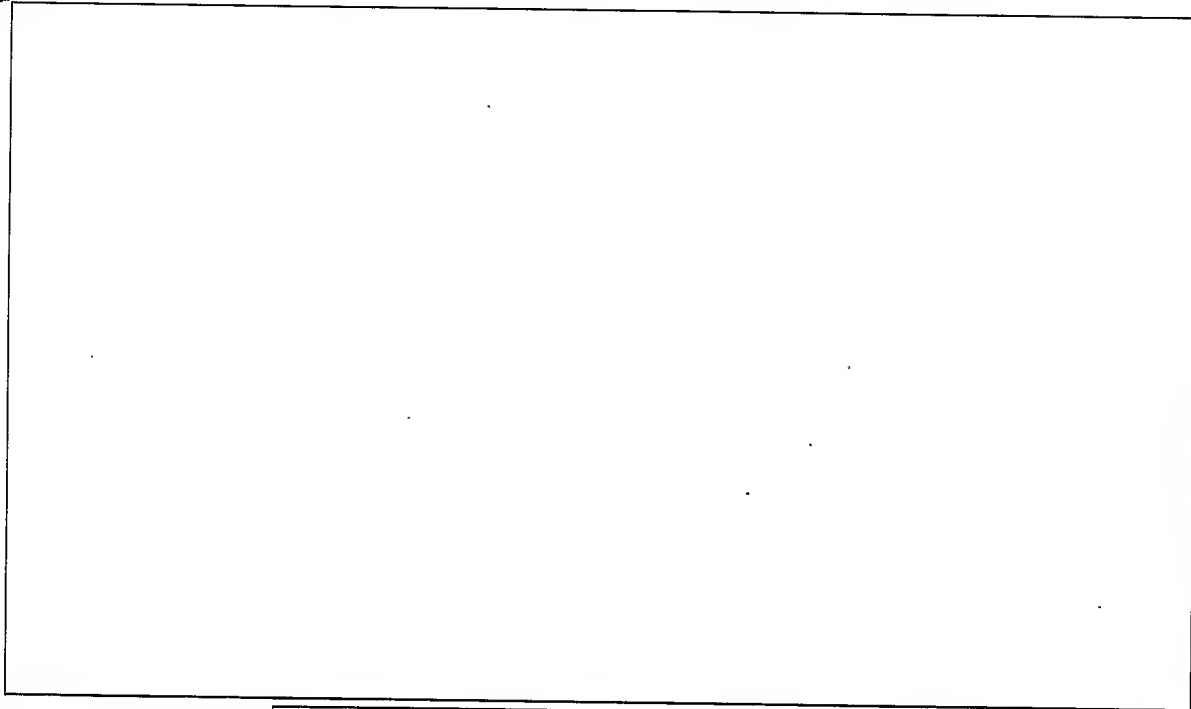
(b)(1)
(b)(3)

(U) Global Reach and On Demand Persistence

S G V

TOP SECRET//TK//REL TO USA, FVEY

3

TOP SECRET//SI/TK//REL TO USA, FVEY

(U) Traditional Mapping Mission

(b)(1)
(b)(3)

Graphic and Video are (TS//SI/TK//REL)

- (S//REL) Limited observable
- (S//SI//REL) Significant increase

(b)(1)
(b)(3)

(U) Persistence Enables Mapping Mission

(U//FOUO) THIS IS NOT A FINISHED INTELLIGENCE PRODUCT – IT IS TO BE USED "FOR INFORMATION PURPOSES ONLY"

TOP SECRET//SI/TK//REL TO USA, FVEY

4

TOP SECRET//SI/TK//REL TO USA, FVEY

(S//REL) Overhead SIGINT Enabling

(b)(1)
(b)(3)

(b)(1)
(b)(3)

Graphic is (TS//SI/TK//REL)

(S//REL) Overhead SIGINT Thrusts Enabling

(b)(1)
(b)(3)

TOP SECRET//SI/TK//REL TO USA, FVEY

5

SECRET//SI/TK//REL TO USA, FVEY

(S//SI//REL) **Overhead SIGINT &** [redacted]

(b)(1)
(b)(3)

(b)(1)
(b)(3)

- (S//SI/TK//REL) [redacted]

(b)(1)
(b)(3)

- (S//SI//REL) [redacted]

(b)(1)
(b)(3)

  - (U) [redacted] with which it is communicating

- (S//SI//REL) [redacted]

(b)(1)
(b)(3)

(b)(1)
(b)(3)

Graphics are (S//SI/TK//REL)

(U) Agility & Access Refining [redacted] Mapping & Collection Tasking
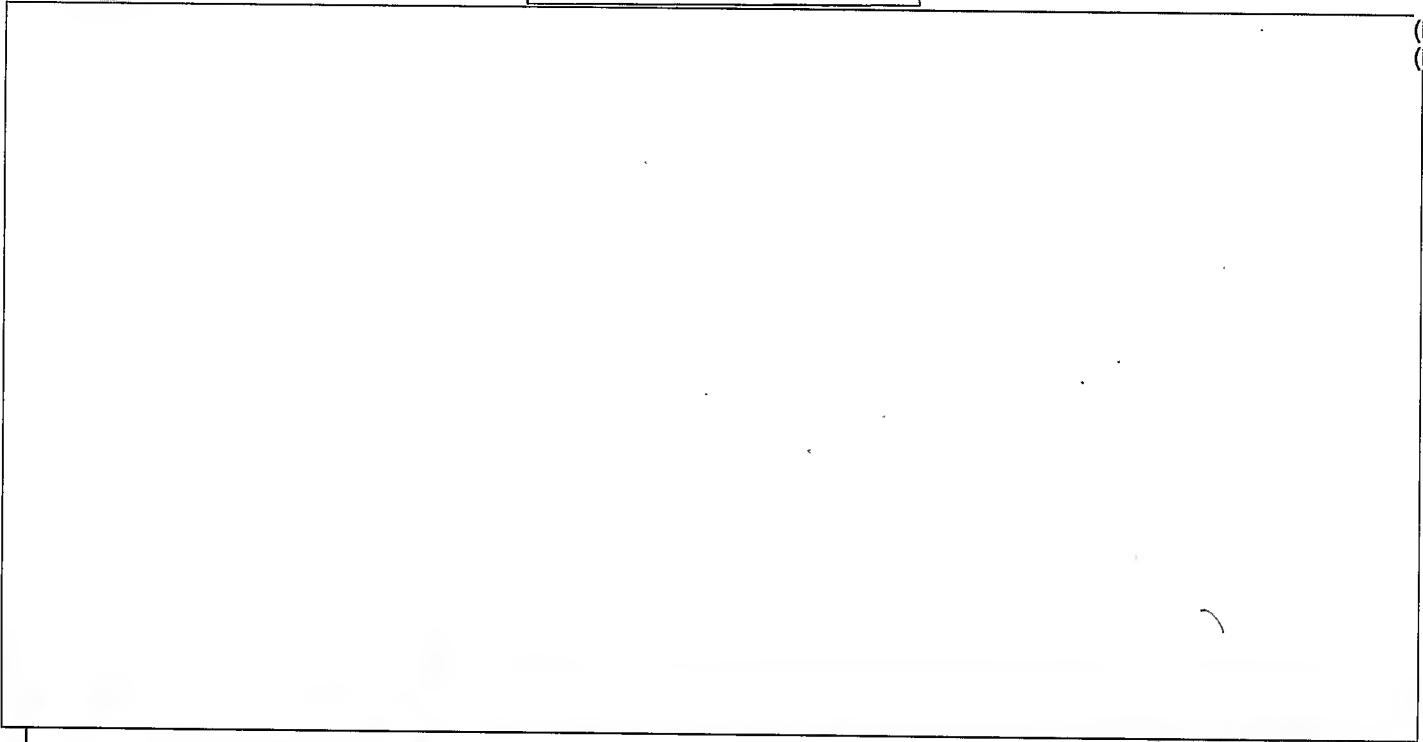
(b)(1)
(b)(3)

SECRET//SI/TK//REL TO USA, FVEY

6

TOP SECRET//SI/TK//REL TO USA, FVEY

(U) SEI:

Graphic is (TS//SI/TK//REL)

(U) SEI Refines

TOP SECRET//SI/TK//REL TO USA, FVEY

7

TOP SECRET//SI/TK//REL TO USA, FVEY

(TS//REL) **Informing Overhead SIGINT Collection**

(b)(1)
(b)(3)

- (TS//REL)

(b)(1)
(b)(3)

- (S//REL) engineers refined SIGINT tasking
- (S//REL) Updated CONOP first used to support

(b)(1)
(b)(3)

(b)(1)
(b)(3)

Graphics and Text are (TS//SI/TK//REL)

(TS//REL) Informing Overhead SIGINT Collection Tasking

(b)(1)
(b)(3)

TOP SECRET//SI/TK//REL TO USA, FVEY

8

C05093749

TOP SECRET//SI/TK//REL TO USA, FVEY

(TS//SI//REL) **Aids SIGINT Collection** (b)(1) (b)(3)

- (TS//SI//REL) (b)(1)b)(1) (b)(3)b)(3)

  - (U) Very limited on details, but included a
  - (U)

- (TS//REL) identified as carrying

- (S//REL)

- (TS//SI//REL) During collection, identified a new

- (TS//REL) Resolved to

(b)(1) (b)(3)

Graphics and Text are (TS//SI/TK//REL)
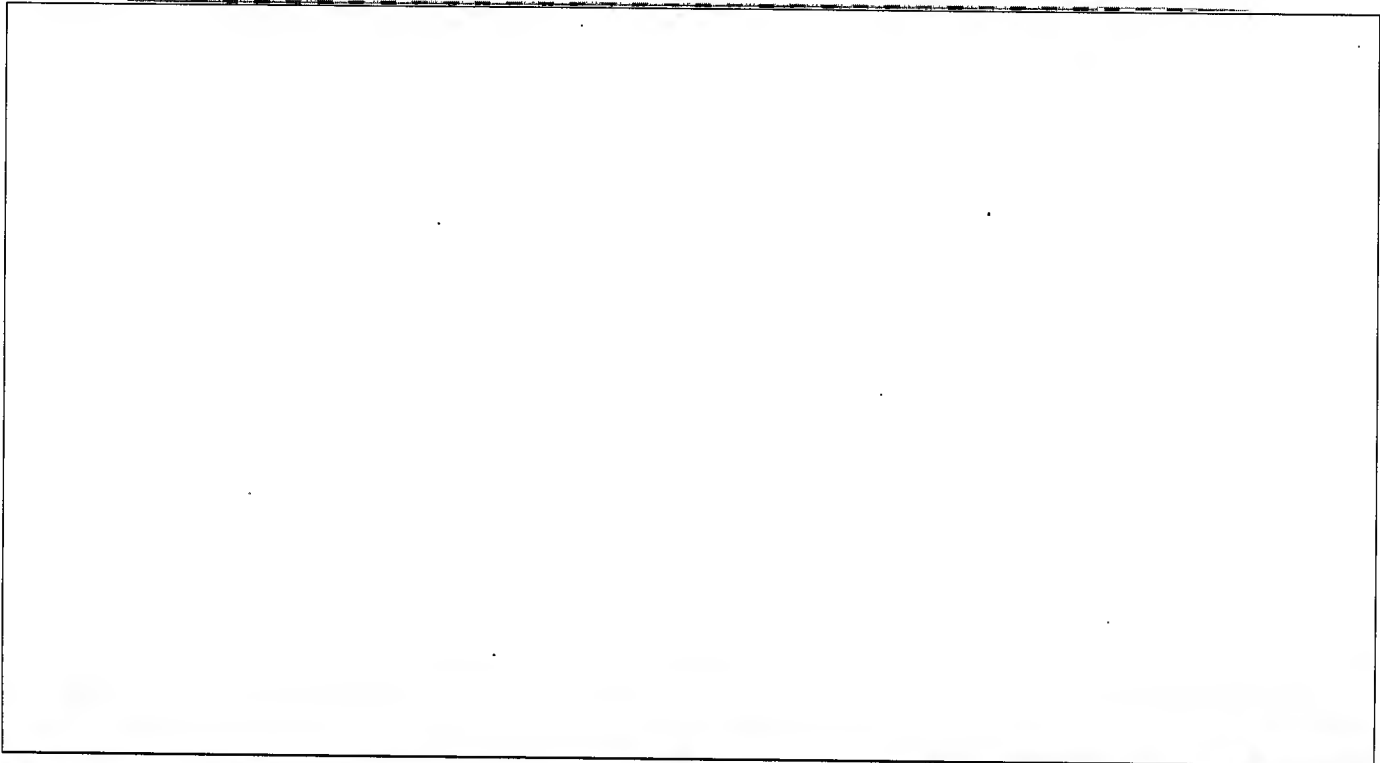
(TS//SI//REL) & Overhead SIGINT Confirms

TOP SECRET//SI/TK//REL TO USA, FVEY

9

(S//REL) Overhead SIGINT Identifying

(b)(1)
(b)(3)

(b)(1)
(b)(3)

Graphic is (TS//SI/TK//REL)

(S//REL) Overhead SIGINT Identifying
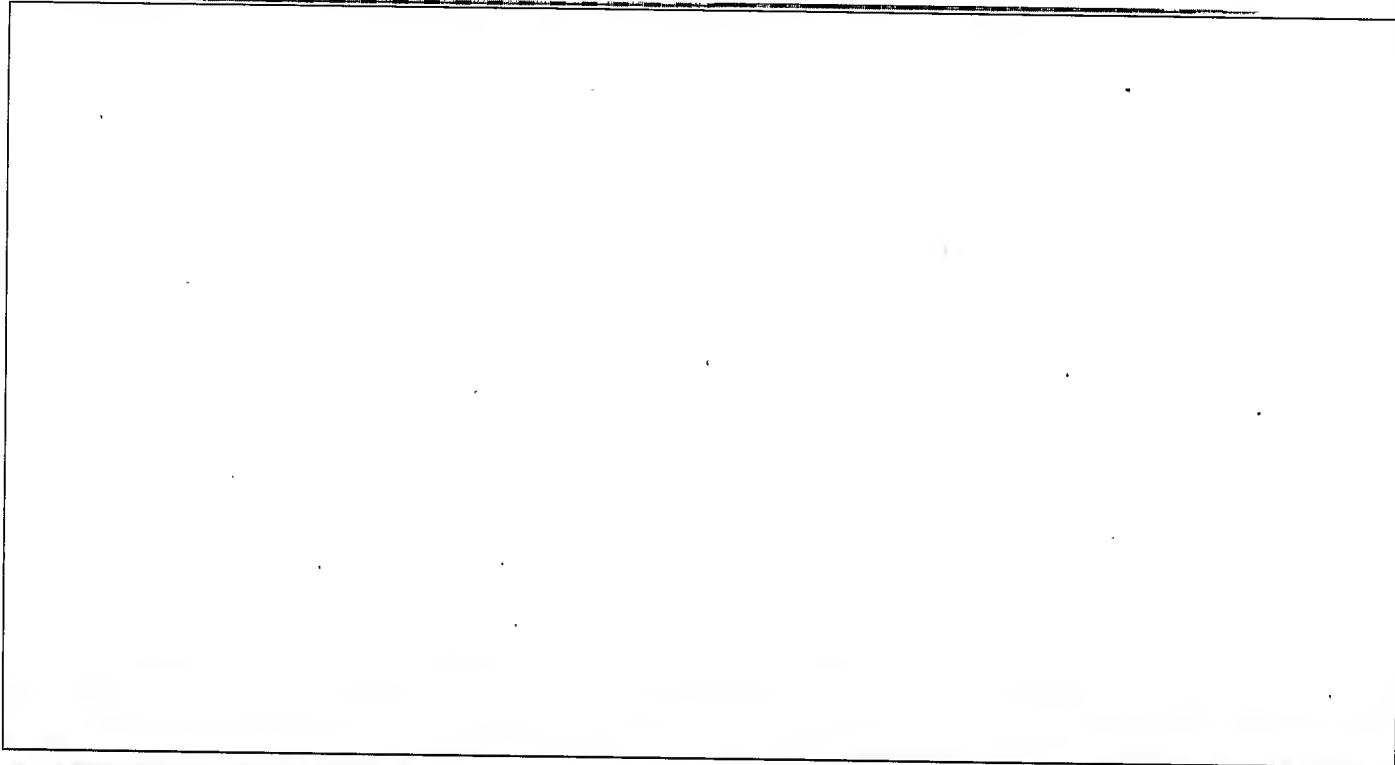
(b)(1)
(b)(3)

TOP SECRET//SI/TK//REL TO USA, FVEY

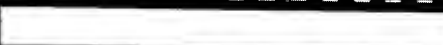## (S//REL) Overhead SIGINT Expediting

(b)(1)
(b)(3)

(b)(1)
(b)(3)

Graphic is (TS//SI/TK//REL)

(S//SI//REL) Processing of Overhead SIGINT Id's [_____] Activity

(b)(1)
(b)(3)

TOP SECRET//SI/TK//REL TO USA, FVEY

11

SECRET//TK//NOFORN

(S//REL) **NRO SIGINT** [   ] **Capabilities**

(b)(1)
(b)(3)

(b)(1)
(b)(3)

(U) Space & Ground Technology Investment Delivers Required Capabilities
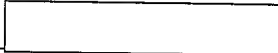
SECRET//TK//NOFORN
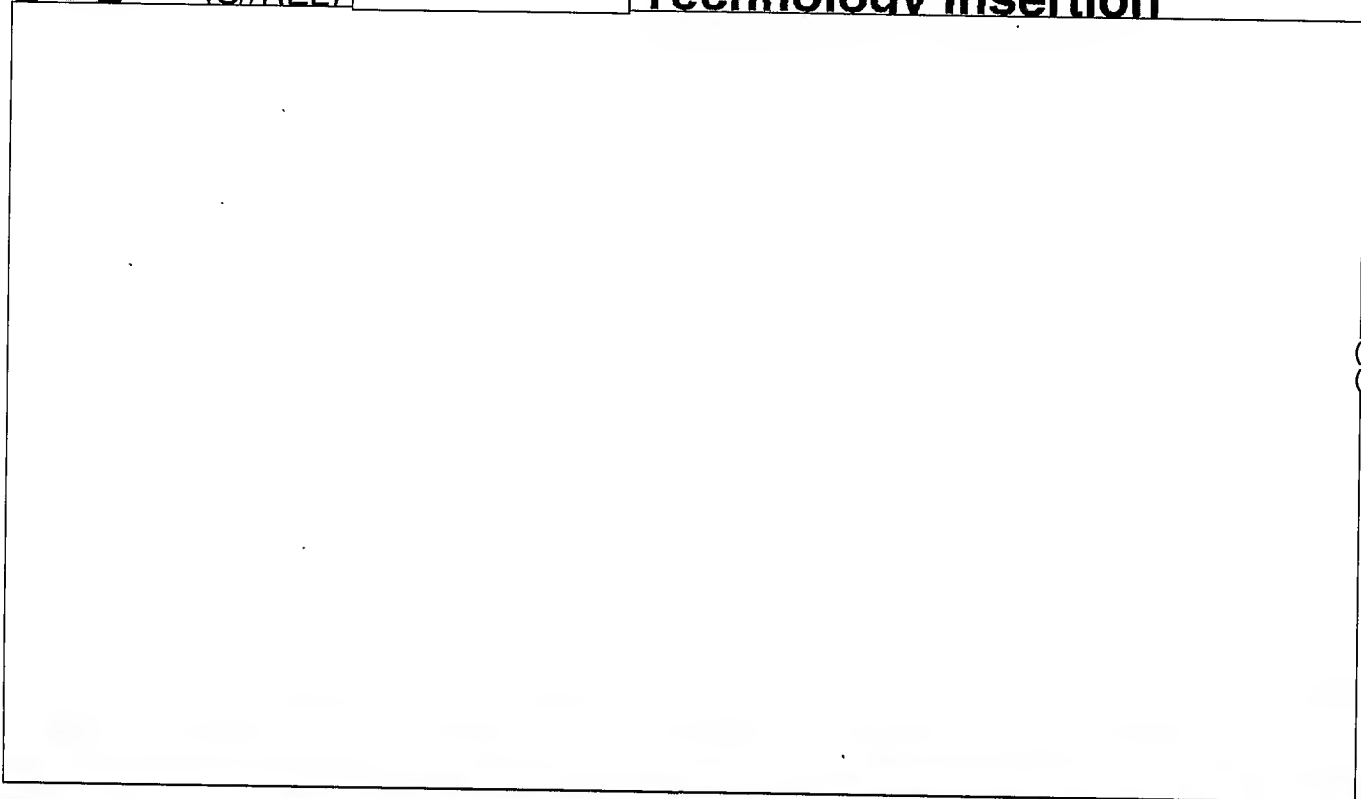
12

SECRET//SI/TK//REL TO USA, FVEY

(S//REL) **Technology Insertion**

(b)(1)
(b)(3)

(b)(1)
(b)(3)

Graphics are (S//SI/TK//REL)

(U) Improving Access/Accuracy for Discovery & Mapping in Dense Environments

SECRET//SI/TK//REL TO USA, FVEY

13

SECRET//SI/TK//REL TO USA, FVEY

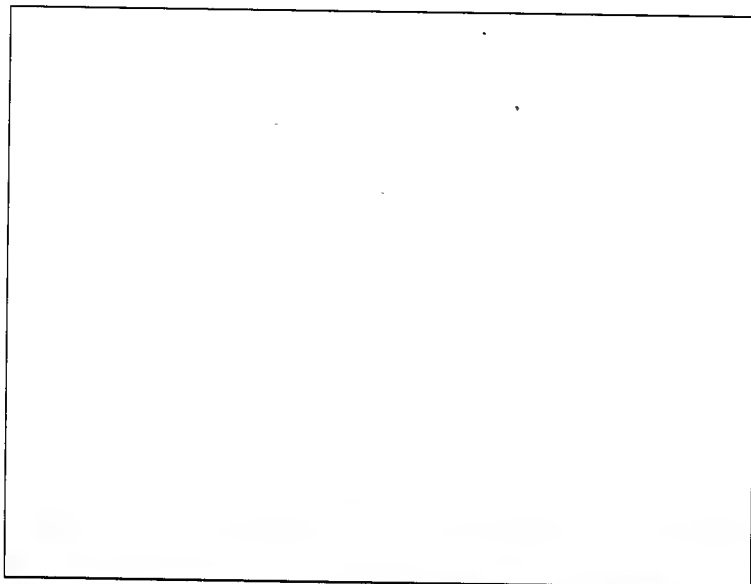**(S//TK//REL)** [   ] (b)(1)
(b)(3)

- (U) Provides [   ] collection & geolocation improvement
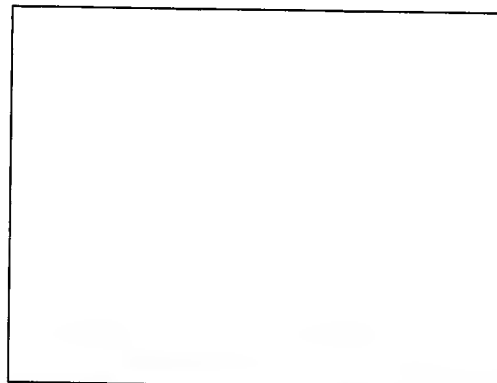- (S//TK//REL) [   ]
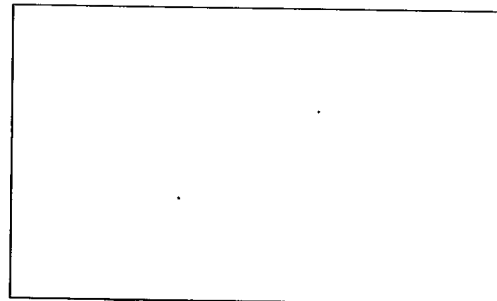- (S//TK//REL) [   ]

(b)(1)
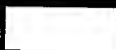(b)(3)

(b)(1)
(b)(3)

Graphic is (S//SI/TK//REL)   Graphics are (S//TK//REL)

(U) [   ] Improves [   ] Collection Accuracy

(b)(1)
(b)(3)

SECRET//SI/TK//REL TO USA, FVEY

14

SECRET//TK//REL TO USA, FVEY

(S//TK//REL)   (b)(1)
(b)(3)

- (U)

provides a flexible,
coverage of

-
-
-

(b)(1)
(b)(3)

(b)(1)
(b)(3)

Graphics are (S//TK//REL)

(S//TK//REL)   Improves Capacity and Agility for All   (b)(1)
(b)(3)

SECRET//TK//REL TO USA, FVEY
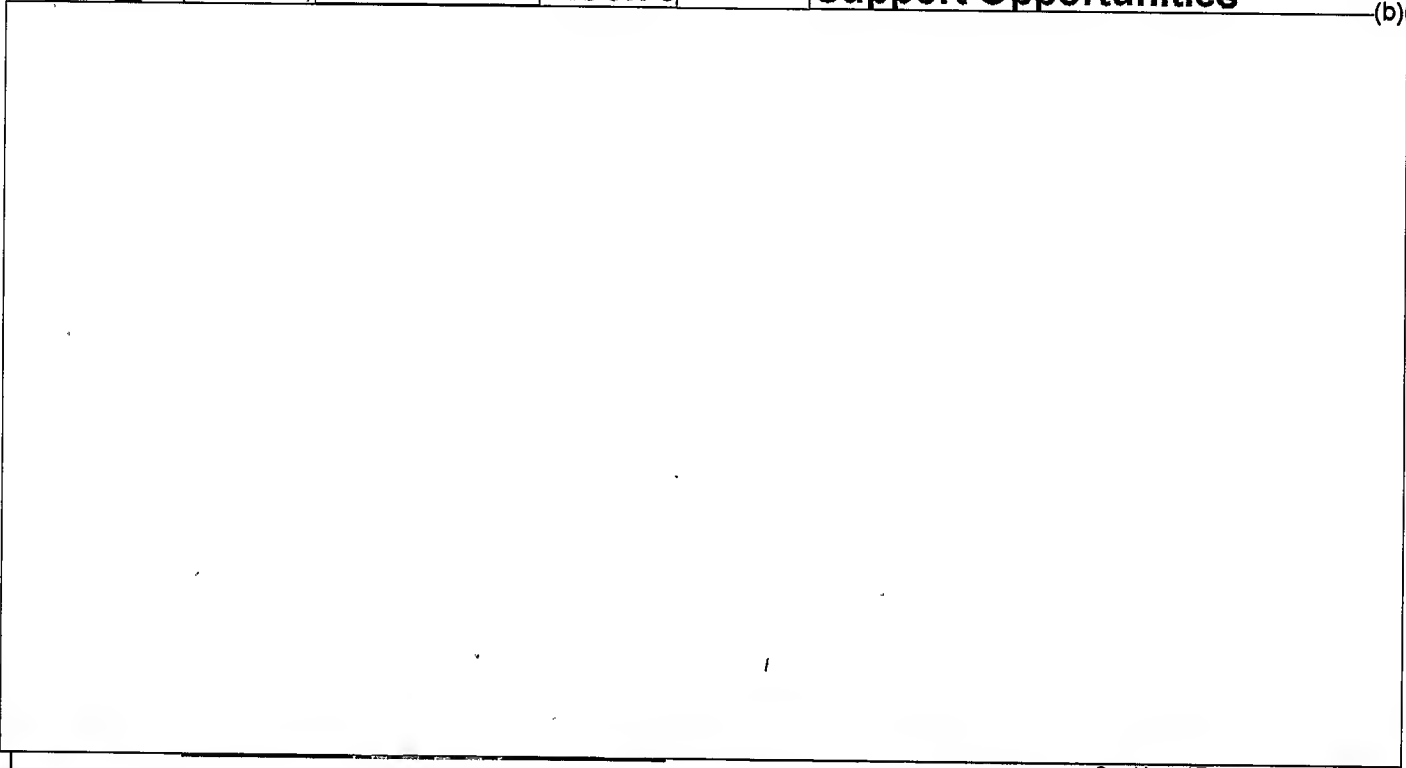
15

SECRET//TK//REL TO USA, FVEY

(b)(1)
(b)(3)

(S//TK//REL) **Block 3** **Support Opportunities**

(b)(1)
(b)(3)

Graphic and Text is (S//TK//REL)

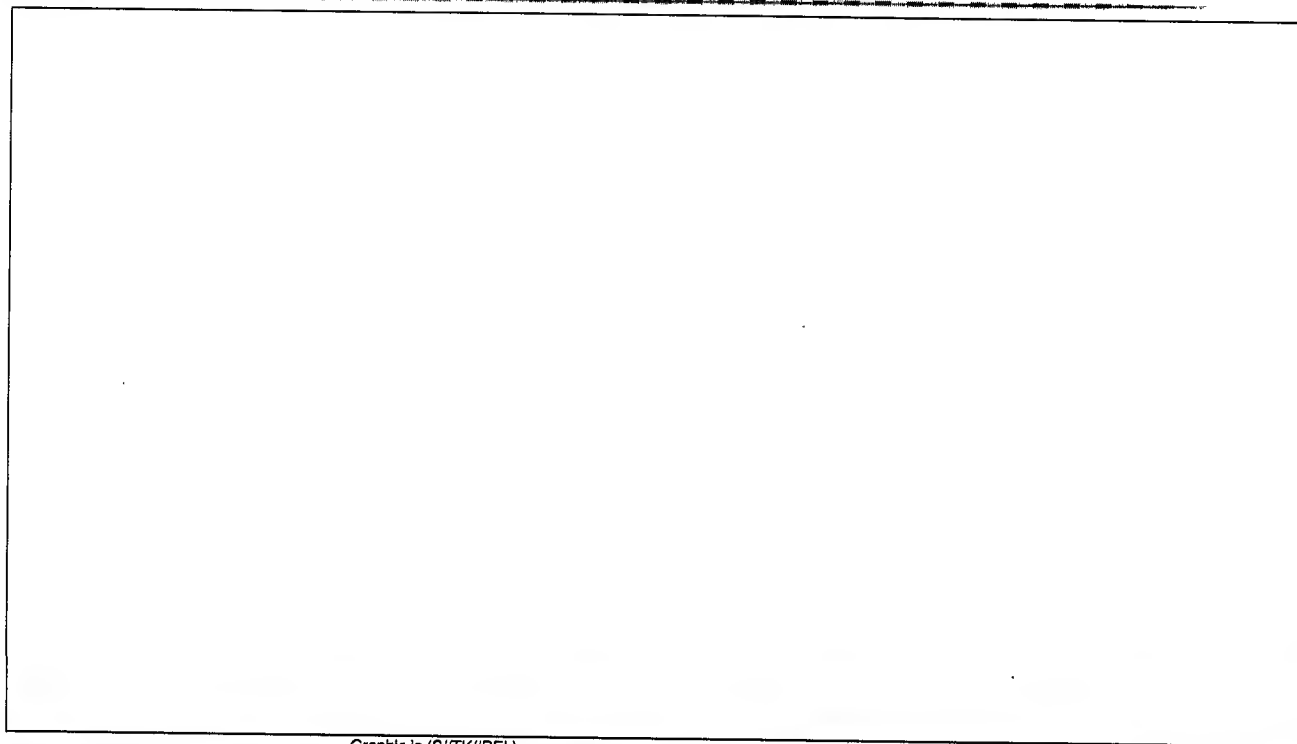(U) Block 3 Agility & Access Offers Opportunity to Improve   Support

(b)(1)
(b)(3)

SECRET//TK//REL TO USA, FVEY

16

SECRET//SI//TK//REL TO USA, FVEY

(U) Enhanced Access & Geolocation

(b)(1)
(b)(3)

Graphic is (S//TK//REL)

(U) Provides Improved Access & Geolocation to Support _____ Effects

(b)(1)
(b)(3)

SECRET//SI//TK//REL TO USA, FVEY

17

SECRET//SI/TK//REL TO USA, FVEY

(U) Opportunity for Rapid Capability Insertion

(b)(1)
(b)(3)

(S//TK//REL)

(b)(1)
(b)(3)

- (U) Functionally similar
- (U) Leverages _____ to provide

(U) Numerous Candidates benefit from

- (U)
- (U) _____ Radars
- (U)
- (U) Potential to Pursue _____ Initiatives

(b)(1)
(b)(3)

Graphics are (S//TK//REL)

(U) _____ Enables Innovation & Rapid Mission Solutions

(b)(1)
(b)(3)

(U) Compilation of unclassified information is S//SI/TK//REL

SECRET//SI/TK//REL TO USA, FVEY

18

SECRET//TK//NOFORN

(U//FOUO) ☐ **Innovative** ☐ **Effort** (b)(1)
(b)(3)

(U) Initial Project Objectives

- (S//NF) ☐

(b)(1)
(b)(3)

(U) Mission / Benefit

- Cost effective solution to rapidly extend IOSA capabilities
- Responsive architecture easily integrates latest ☐ technology/microprocessors
- Extensible to support other missions such as ☐

(b)(1)
(b)(3)

(U) Future Opportunities

- Leverage ☐ development; scale up to support increased sensitivity
  ☐ successfully tested and characterized
- Potential to leverage ☐ comms infrastructure

(b)(1)
(b)(3)

Graphics are (S//TK//REL TO USA, FVEY)

(U) Provides Enhanced Access to Support ☐ Effects Operations (b)(1)
(b)(3)

(U) Compilation of ☐ and ☐ is S//TK//NF.

SECRET//TK//NOFORN

19

TOP SECRET//SI/TK//NOFORN

(U) Overhead SIGINT Tackling

(b)(1)
(b)(3)

(b)(1)
(b)(3)

(b)(1)
(b)(3)

- (U) Overhead SIGINT Supporting:
  - Precise [   ] Mapping
  - [   ] Support
  - Vulnerability Mapping
  - [   ] Support

- (U) Ground Processing Innovation Maximizing Overhead SIGINT to [   ] Effects

- (U) SIGINT Thrusts & Technology Pursuits:
  - Offers Further Innovation on Ground
  - Targeting Enablers to Rapidly Insertion of Leading Edge Capabilities

Graphics are (TS//SI/TK//NF)

(U) Overhead SIGINT Contribution to [   ] Effects are Evolving

(b)(1)
(b)(3)
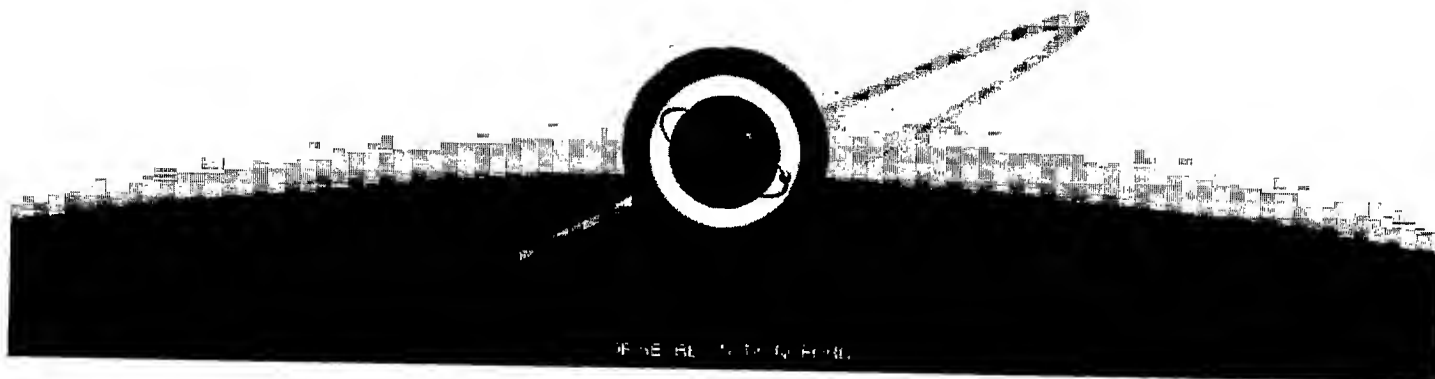
(U) Compilation of unclassified information is TS//REL

TOP SECRET//SI/TK//NOFORN

20

NATIONAL RECONNAISSANCE OFFICE

SUPRA ET ULTRA

C05093749

Capability Status

	Capability	Platform	Details	NRO Support/Equities	(b)(1) (b)(3)

22

TOP SECRET//SI/TK//NOFORN

NATIONAL RECONNAISSANCE OFFICE

SUPRA ET ULTRA